



## MATERIAL SPECIFICATION FOR T100G

REQUIREMENT	TYPICAL VALUES		
	Imperial	Metric	
<b>Rockwell Hardness</b>	90 - 100 Rockwell M.	90 - 100 Rockwell M.	
<b>Density</b>	0.045- 0.048 lbs/in <sup>-3</sup>	1.25 – 1.35 (Gms/cc)	
<b>Tensile Strength</b>			
Lengthwise	9.427 PSI	65 N/mm <sup>2</sup>	
Crosswise	8.702 PSI	60 N/mm <sup>2</sup>	
<b>Flexural Strength</b>			
Lengthwise	20.000 PSI	138 N/mm <sup>2</sup>	
Crosswise	15.500 PSI	107 N/mm <sup>2</sup>	
<b>Shear Strength</b>			
	19.500 PSI	134 N/mm <sup>2</sup>	
<b>Compressive Strength</b>			
Flatwise	50.000 PSI	345 N/mm <sup>2</sup>	
Edgewise	20.000 PSI	138 N/mm <sup>2</sup>	
<b>Water Absorption, Volumetric</b>			
	Less than 0.1%	Less than 0.1%	
<b>Coefficient of Thermal Expansion 20 - 100°C (Per mm per °C x 10<sup>-5</sup>)</b>			
	Parallel to Laminations	6 - 7	
	Right Angle to Laminations	12 - 13	
<b>Max Constant Operating Temp</b>			
	212F	100°C	
<b>Min Constant Operating Temp</b>			
	-94 F	-70°C	
<b>Tensile Modulus</b>			
	0.47 (lbs/Sq in x 10 <sup>6</sup> )	0.32 (N/mm <sup>2</sup> x 10 <sup>4</sup> )	
<b>Lubricants</b>			
	Graphite	Graphite	
<b>Colour</b>			
	Dark Grey	Dark Grey	
<b>Coefficient of Friction, Tufcot against Stainless Steel</b>			
Bearing Pressure 15.5 N/mm <sup>2</sup> Surface Speed 2.2 M/Sec (oil&water)	<i>Dry</i>	0.13 – 0.18	0.13 – 0.18
	<i>Water</i>	0.01	0.01
	<i>Oil</i>	0.02	0.02

**The above values are typical**

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